

**Amendments to the Specification:**

Page 1, before line 1, insert:

**Cross Reference to Related Application**

This application is a 35 USC § 371 National Phase Entry Application from PCT/EP2003/007983, filed July 22, 2003, and designating the U.S., which claims the benefit of U.S. Serial Number 60/397,618 filed July 23, 2002.

Please replace lines 5-8 of Page 4 with the following amended lines:

Examples of herbicides which can be used in combination with the 3-heterocyclyl-substituted benzoyl derivatives of formula I and the ~~compound of formula II~~ two herbicides of component B according to the present invention are, inter alia:

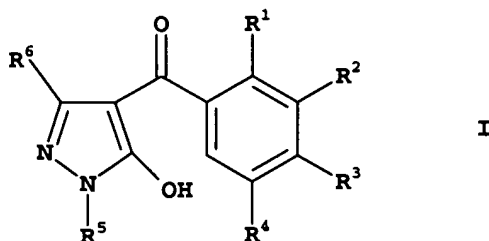
**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Original) A synergistic herbicidal mixture comprising

A) at least one 3-heterocyclyl-substituted benzoyl derivative of the formula I



in which the variables have the following meanings:

R<sup>1</sup>, R<sup>3</sup> are halogen, C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>1</sub>-C<sub>6</sub>-haloalkyl, C<sub>1</sub>-C<sub>6</sub>-alkoxy, C<sub>1</sub>-C<sub>6</sub>-haloalkoxy, C<sub>1</sub>-C<sub>6</sub>-alkylthio, C<sub>1</sub>-C<sub>6</sub>-alkylsulfinyl or C<sub>1</sub>-C<sub>6</sub>-alkylsulfonyl;

R<sup>2</sup> is a heterocyclic radical selected from the group: isoxazol-3-yl, isoxazol-4-yl, isoxazol-5-yl, 4,5-dihydroisoxazol-3-yl, 4,5-dihydroisoxazol-4-yl and 4,5-dihydroisoxazol-5-yl, it being possible for the six radicals mentioned to be unsubstituted or mono- or polysubstituted by halogen, C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>1</sub>-C<sub>4</sub>-alkoxy, C<sub>1</sub>-C<sub>4</sub>-haloalkyl, C<sub>1</sub>-C<sub>4</sub>-haloalkoxy or C<sub>1</sub>-C<sub>4</sub>-alkylthio;

R<sup>4</sup> is hydrogen, halogen or C<sub>1</sub>-C<sub>6</sub>-alkyl;

R<sup>5</sup> is C<sub>1</sub>-C<sub>6</sub>-alkyl;

R<sup>6</sup> is hydrogen or C<sub>1</sub>-C<sub>6</sub>-alkyl;

or one of its environmentally compatible salts;

and

- B) two herbicides selected from the group including imazapyr, imazaquin, imazamethabenz-methyl, imazamox, imazapic and imazethapyr;  
or one of its environmentally compatible salts;

and, if desired,

- C) at least one herbicidal compound from the group of the acetyl-CoA carboxylase inhibitors (ACC), acetolactate synthase inhibitors (ALS), amides, auxin herbicides, auxin transport inhibitors, carotenoid biosynthesis inhibitors, enolpyruvylshikimate 3-phosphate synthase inhibitors (EPSPS), glutamine synthetase inhibitors, lipid biosynthesis inhibitors, mitosis inhibitors, protoporphyrinogen IX oxidase inhibitors, photosynthesis inhibitors, synergists, growth substances, cell wall biosynthesis inhibitors and a variety of other herbicides;

in a synergistically effective amount.

2. (Currently Amended) A synergistic herbicidal mixture as claimed in claims 1, comprising, as component A), a 3-heterocyclyl-substituted benzoyl derivative of the formula I, where  $R^4$  is hydrogen.

3. (Currently Amended) A synergistic herbicidal mixture as claimed in ~~any of claims 1 to 2~~ claim 1, comprising, as component A), a 3-heterocyclyl-substituted benzoyl derivative of the formula I, where
- $R^1$  is halogen,  $C_1$ - $C_6$ -alkyl or  $C_1$ - $C_6$ -alkylsulfonyl;
- $R^3$  is halogen or  $C_1$ - $C_6$ -alkylsulfonyl;
4. (Currently Amended) A synergistic herbicidal mixture as claimed in ~~any of claims 1 to 3~~ claim 1, comprising, as component A), a 3-heterocyclyl-substituted benzoyl derivative of the formula I, where
- $R^2$  is a heterocyclic radical selected from the group: isoxazol-3-yl, isoxazol-5-yl and 4,5-dihydroisoxazol-3-yl, it being possible for the three radicals mentioned to be unsubstituted or mono- or polysubstituted by halogen,  $C_1$ - $C_4$ -alkyl,  $C_1$ - $C_4$ -alkoxy,  $C_1$ - $C_4$ -haloalkyl,  $C_1$ - $C_4$ -haloalkoxy or  $C_1$ - $C_4$ -alkylthio.
5. (Currently Amended) A synergistic herbicidal mixture as claimed in ~~any of claims 1 to 4~~ claim 4, comprising, as component A), a 3-heterocyclyl-substituted benzoyl derivative of the formula I, where
- $R^2$  is isoxazol-5-yl, 3-methyl-isoxazol-5-yl, 4,5-dihydroisoxazol-3-yl, 5-methyl-4,5-dihydroisoxazol-3-yl, 5-ethyl-4,5-dihydroisoxazol-3-yl or 4,5-dimethyl-4,5-dihydroisoxazol-3-yl.

6. (Currently Amended) A synergistic herbicidal mixture as claimed in ~~any of claims 1 to 5~~ claim 5, comprising, as component A), 4-[2-chloro-3-(4,5-dihydroisoxazol-3-yl)-4-methylsulfonyl-benzoyl]-1-methyl-5-hydroxy-1H-pyrazole.
7. (Currently Amended) A synergistic herbicidal mixture as claimed in ~~any of claims 1 to 5~~ claim 5, comprising, as component A) 4-[2-methyl-3-(4,5-dihydroisoxazol-3-yl)-4-methylsulfonyl-benzoyl]-1-methyl-5-hydroxy-1H-pyrazole.
8. (Currently Amended) A synergistic herbicidal mixture as claimed in ~~any of claims 1 to 7~~ claim 1, comprising as component B) imazapyr and imazethapyr.
9. (Currently Amended) A synergistic herbicidal mixture as claimed in ~~any of claims 1 to 7~~ claim 1, comprising as component B) imazapic and imazapyr.
10. (Currently Amended) A synergistic herbicidal mixture as claimed in ~~any of claims 1 to 7~~ claim 1, comprising, three active ingredients, a 3-heterocyclyl-substituted benzoyl derivative of the formula I (component A) as claimed in ~~claims 1 to 7~~ claim 1 and imazapyr and imazethapyr (component B).
11. (Currently Amended) A synergistic herbicidal mixture as claimed in ~~any of claims 1 to 7~~ claim 1, comprising, three active ingredients, a 3-heterocyclyl-

substituted benzoyl derivative of the formula I (component A) as claimed in ~~claims 1 to 7~~ claim 1 and imazapic and imazapyr(component B).

12. (Currently Amended) A synergistic herbicidal mixture as claimed in ~~any of~~ ~~claims 1 to 7~~ claim 1, comprising, at least four active ingredients, a 3-heterocyclyl-substituted benzoyl derivative of the formula I (component A) as claimed in ~~claims 1 to 7~~ claim 1;  
two herbicides selected from the group including imazapyr, imazaquin, imazamethabenz-methyl, imazamox, imazapic and imazethapyr(component B) as claimed in ~~claims 1~~;  
and

C) at least one herbicidal compound from the group of the acetyl-CoA carboxylase inhibitors (ACC), acetolactate synthase inhibitors (ALS), amides, auxin herbicides, auxin transport inhibitors, carotenoid biosynthesis inhibitors, enolpyruvylshikimate 3-phosphate synthase inhibitors (EPSPS), glutamine synthetase inhibitors, lipid biosynthesis inhibitors, mitosis inhibitors, protoporphyrinogen IX oxidase inhibitors, photosynthesis inhibitors, synergists, growth substances, cell wall biosynthesis inhibitors and a variety of other herbicides.

13. (Currently Amended) A synergistic herbicidal mixture as claimed in ~~claim 1 or~~ 12 comprising, as component C), at least one herbicidal compound from the groups C1 to C16:

- C1 acetyl-CoA carboxylase inhibitors (ACC):  
cyclohexenone oxime ethers, phenoxyphenoxypropionic esters or  
arylamino propionic acids;
- C2 acetolactate synthase inhibitors (ALS):  
imidazolinones, pyrimidyl ethers, sulfonamides or sulfonylureas;
- C3 amides;
- C4 auxin herbicides:  
pyridinecarboxylic acids, 2,4-D or benazolin;
- C5 auxin transport inhibitors;
- C6 carotenoid biosynthesis inhibitors;
- C7 enolpyruvylshikimate 3-phosphate synthase inhibitors (EPSPS);
- C8 glutamine synthetase inhibitors;
- C9 lipid biosynthesis inhibitors:  
anilides, chloroacetanilides, thioureas, benfuresate or perfluidone;
- C10 mitosis inhibitors:  
carbamates, dinitroanilines, pyridines, butamifos, chlorthal-dimethyl  
(DCPA) or maleic hydrazide;
- C11 protoporphyrinogen IX oxidase inhibitors:  
diphenyl ethers, oxadiazoles, cyclic imides or pyrazoles;
- C12 photosynthesis inhibitors:  
propanil, pyridate, pyridafol, benzothiadiazinones, dinitrophenols,  
dipyridylenes, ureas, phenols, chloridazon, triazines, triazinones, uracils  
or biscalbamates;

C13 synergists:

oxiranes;

C14 growth substances:

aryloxyalkanoic acids, benzoic acids or quinolinecarboxylic acids;

C15 cell wall synthesis inhibitors:

C16 various other herbicides:

dichloropropionic acids, dihydrobenzofurans, phenylacetic acids or  
aziprotryn, barban, bensulide, benzthiazuron, benzofluor, buminafos,  
buthidazole, buturon, cafenstrole, chlorbufam, cħlorofenprop-methyl,  
chloroxuron, cinmethylin, cumyluron, cycluron, cyprazine, cyprazole,  
dibenzyluron, dipropetryn, dymron, eglinazin-ethyl, endothall, ethiozin,  
flucabazone, fluorbentranil, flupoxam, isocarbamid, isopropalin,  
karbutilate, mefluidide, monuron, napropamide, napropanilide, nitralin,  
oxaciclomefone, phenisopham, piperophos, procyazine, profluralin,  
pyributicarb, secbumeton, sulfallate (CDEC), terbucarb, triazofenamide,  
triaziflam or trimeturon;

or their environmentally compatible salts.

14. (Currently Amended) A synergistic herbicidal mixture as claimed in claims 1 or 12, comprising, as component C), at least one herbicidal compound from the groups C1 to C16:

C1 acetyl-CoA carboxylase inhibitors (ACC):

- cyclohexenone oxime ethers:



alloxydim, clethodim, cloproxydim, cycloxydim, sethoxydim,

tralkoxydim, butroxydim, clefoxydim or tepraloxym;

- phenoxyphenoxypropionic esters:

clodinafop-propargyl (and, if appropriate, cloquintocet), cyhalofop-

butyl, diclofop-methyl, fenoxaprop-ethyl, fenoxaprop-P-ethyl,

fenthiapropethyl, fluazifop-butyl, fluazifop-P-butyl, haloxyfop-

ethoxyethyl, haloxyfop-methyl, haloxyfop-P-methyl, isoxapyrifop,

propaquizafop, quizalofop-ethyl, quizalofop-P-ethyl or quizalofop-

tefuryl; or

- arylaminopropionic acids:

flamprop-methyl or flamprop-isopropyl;

## C2 acetolactate synthase inhibitors (ALS):

- imidazolinones:

imazapyr, imazaquin, imazamethabenz-methyl, imazamox,

imazapic or imazethapyr;

- pyrimidyl ethers:

pyrithiobac-acid, pyrithiobac-sodium, bispyribac-sodium, KIH-6127

or pyribenzoxym;

- sulfonamides:

florasulam, flumetsulam or metosulam; or

- sulfonylureas:

amidosulfuron, azimsulfuron, bensulfuron-methyl, chlorimuron-

ethyl, chlorsulfuron, cinosulfuron, cyclosulfamuron,

ethametsulfuron-methyl, ethoxysulfuron, flazasulfuron,  
halosulfuron-methyl, imazosulfuron, metsulfuron-methyl,  
nicosulfuron, primisulfuron-methyl, prosulfuron, pyrazosulfuron-  
ethyl, rimsulfuron, sulfometuron-methyl, thifensulfuron-methyl,  
triasulfuron, tribenuron-methyl, triflusulfuron-methyl, N-[[[4-  
methoxy-6-(trifluoromethyl)-1,3,5-triazin-2-yl]amino]-carbonyl]-2-  
(trifluoromethyl)-benzenesulfonamide, sulfosulfuron or iodosulfuron;

C3 amides:

- allidochlor (CDAA), benzoylprop-ethyl, bromobutide, chlorthiamid,  
diphenamid, etobenzanid (benzchlomet), fluthiamide, fosamin or  
monalide;

C4 auxin herbicides:

- pyridine carboxylic acids:  
clopyralid or picloram; or
- 2,4-D or benazolin;

C5 auxin transport inhibitors:

- naptalame or diflufenzopyr;

C6 carotenoid biosynthesis inhibitors:

- benzofenap, clomazone (dimethazone), diflufenican,  
fluorochloridone, fluridone, pyrazolynate, pyrazoxyfen, isoxaflutole,  
isoxachlortole, mesotrione, sulcotrione (chlormesulone),  
ketospiradox, flurtamone, norflurazon or amitrol;

C7 enolpyruvylshikimate-3-phosphate synthase inhibitors (EPSPS):

- glyphosate or sulfosate;

C8 glutamine synthetase inhibitors:

- bilanafos (bialaphos) or glufosinate-ammonium;

C9 lipid biosynthesis inhibitors:

- anilides:

anilofos or mefenacet;

- chloroacetanilides:

dimethenamid, S-dimethenamid, acetochlor, alachlor, butachlor,

butenachlor, diethatyl-ethyl, dimethachlor, metazachlor,

metolachlor, S-metolachlor, pretilachlor, propachlor, prynachlor,

terbuchlor, thenylchlor or xylachlor;

- thioureas:

butylate, cycloate, di-allate, dimepiperate, EPTC, esprocarb,

molinate, pebulate, prosulfocarb, thiobencarb (benthiocarb), tri-

allate or vernolate; or

- benfuresate or perfluidone;

C10 mitosis inhibitors:

- carbamates:

asulam, carbetamid, chlorpropham, orbencarb, pronamid

(propyzamid), propham or tiocarbazil;

- dinitroanilines:

benefin, butralin, dinitramin, ethalfluralin, fluchloralin, oryzalin,

pendimethalin, prodiamine or trifluralin;

- pyridines:  
dithiopyr or thiazopyr; or
- butamifos, chlorthal-dimethyl (DCPA) or maleic hydrazide;

C11 protoporphyrinogen IX oxidase inhibitors:

- diphenyl ethers:  
acifluorfen, acifluorfen-sodium, aclonifen, bifenox, chlornitrofen (CNP), ethoxyfen, fluorodifen, fluoroglycofen-ethyl, fomesafen, furyloxyfen, lactofen, nitrofen, nitrofluorfen or oxyfluorfen;
- oxadiazoles:  
oxadiargyl or oxadiazon;
- cyclic imides:  
azafenidin, butafenacil, carfentrazone-ethyl, cinidon-ethyl, flumiclorac-pentyl, flumioxazin, flumipropyn, flupropacil, fluthiacet-methyl, sul-fentrazone or thidiazimin; or
- pyrazoles:  
ET-751, JV 485 or nipyraclufen;

C12 photosynthesis inhibitors:

- propanil, pyridate or pyridafol;
- benzothiadiazinones:  
bentazone;
- dinitrophenols:  
bromofenoxim, dinoseb, dinoseb-acetate, dinoterb or DNOC;
- dipyridylenes:

cyperquat-chloride, difenzoquat-methylsulfate, diquat or paraquat-dichloride;

- ureas:

chlorbromuron, chlorotoluron, difenoxuron, dimefuron, diuron, ethidimuron, fenuron, fluometuron, isoproturon, isouron, linuron, methabenzthiazuron, methazole, metobenzuron, metoxuron, monolinuron, neburon, siduron or tebuthiuron;

- phenols:

bromoxynil or ioxynil;

- chloridazon;

- triazines:

ametryn, atrazine, cyanazine, desmetryn, dimethamethryn, hexazinone, prometon, prometryn, propazine, simazine, simetryn, terbumeton, terbutryn, terbutylazine or trietazine;

- triazinones:

metamitron or metribuzine;

- uracils:

bromacil, lenacil or terbacil; or

- biscarbamates:

desmedipham or phenmedipham;

C13 synergists:

- oxiranes:

tridiphan;

## C14 growth substances:

- aryloxyalkanoic acids:  
2,4-DB, clomeprop, dichlorprop, dichlorprop-P (2,4-DP-P),  
fluoroxypyr, MCPA, MCPB, mecoprop, mecoprop-P, or triclopyr;
- benzoic acids:  
chloramben or dicamba; or
- quinolinecarboxylic acids:  
quinclorac or quinmerac;

## C15 cell wall synthesis inhibitors:

- isoxaben or dichlobenil;

## C16 various other herbicides:

- dichloropropionic acids:  
dalapon;
- dihydrobenzofurans:  
ethofumesate;
- phenylacetic acids:  
chlorfenac (fenac); or
- aziprotryn, barban, bensulide, benzthiazuron, benzofluor,  
buminafos, buthidazole, buturon, cafenstrole, chlorbufam,  
chlorfenprop-methyl, chloroxuron, cinmethylin, cumyluron, cycluron,  
cyprazine, cyprazole, dibenzyluron, dipropetryn, dymron, eglinazin-  
ethyl, endothall, ethiozin, flucabazone, fluorbentranil, flupoxam,

isocarbamid, isopropalin, karbutilate, mefluidide, monuron,  
napropamide, napropanilide, nitralin, oxaciclomefone,  
phenisopham, piperophos, procyazine, profluralin, pyributicarb,  
sebumeton, sulfallate (CDEC), terbucarb, triazofenamid, triaziflan  
or trimeturon;

or their environmentally compatible salts.

15. (Currently Amended) A synergistic herbicidal mixture as claimed in claim ~~12~~ 13,  
comprising, as component C), at least one herbicidal compound from the  
groups C9 or C12 ~~as defined in claim 12~~.

16. (Currently Amended) A synergistic herbicidal mixture as claimed in claim ~~12~~ 13  
comprising, as component A) 4-[2-methyl-3-(4,5-dihydroisoxa-zol-3-yl)-4-  
methylsulfonyl-benzoyl]-1-methyl-5-hydroxy-1H-pyrazole; as component B) two  
herbicides selected from the group including imazapyr, imazaquin,  
imazamethabenz-methyl, imazamox, imazapic and imazethapyr; and as  
component C) a herbicidal compound from the group C9.

17. (Original) A synergistic herbicidal mixture as claimed in claim 12 comprising, as  
component A) 4-[2-methyl-3-(4,5-dihydroisoxa-zol-3-yl)-4-methylsulfonyl-  
benzoyl]-1-methyl-5-hydroxy-1H-pyrazole, as component B) imazapyr and  
imazethapyr or imazapic and imazapyr, and as component C) a  
chloroacetanilide.

18. (Original) A synergistic herbicidal mixture as claimed in claim 12 comprising, as component A) 4-[2-methyl-3-(4,5-dihydroisoxa-zol-3-yl)-4-methylsulfonyl-benzoyl]-1-methyl-5-hydroxy-1H-pyrazole, as component B) imazapyr and imazethapyr as component C) acetochlor.
19. (Original) A synergistic herbicidal mixture as claimed in claim 12 comprising, as component A) 4-[2-methyl-3-(4,5-dihydroisoxa-zol-3-yl)-4-methylsulfonyl-benzoyl]-1-methyl-5-hydroxy-1H-pyrazole, as component B) imazapic and imazapyr, and as component C) acetochlor.
20. (Currently Amended) A synergistic herbicidal mixture as claimed in claim ~~12~~ 13 comprising, as component A) 4-[2-methyl-3-(4,5-dihydroisoxa-zol-3-yl)-4-methylsulfonyl-benzoyl]-1-methyl-5-hydroxy-1H-pyrazole; as component B) two herbicides selected from the group including imazapyr, imazaquin, imazamethabenz-methyl, imazamox, imazapic and imazethapyr; and as component C) a herbicidal compound from the group C12.
21. (Original) A synergistic herbicidal mixture as claimed in claim 12 comprising, as component A) 4-[2-methyl-3-(4,5-dihydroisoxa-zol-3-yl)-4-methylsulfonyl-benzoyl]-1-methyl-5-hydroxy-1H-pyrazole, as component B) imazapyr and imazethapyr, and as component C) a benzothiadiazone or a triazine.



22. (Original) A synergistic herbicidal mixture as claimed in claim 12 comprising, as component A) 4-[2-methyl-3-(4,5-dihydroisoxa-zol-3-yl)-4-methylsulfonyl-benzoyl]-1-methyl-5-hydroxy-1H-pyrazole, as component B) imazapyr and imazethapyr, and as component C) bentazone.
23. (Original) A synergistic herbicidal mixture as claimed in claim 12 comprising, as component A) 4-[2-methyl-3-(4,5-dihydroisoxa-zol-3-yl)-4-methylsulfonyl-benzoyl]-1-methyl-5-hydroxy-1H-pyrazole, as component B) imazapyr and imazethapyr as component C) atrazine.
24. (Original) A synergistic herbicidal mixture as claimed in claim 12 comprising, as component A) 4-[2-methyl-3-(4,5-dihydroisoxa-zol-3-yl)-4-methylsulfonyl-benzoyl]-1-methyl-5-hydroxy-1H-pyrazole, as component B) imazapic and imazapyr, and as component C) a benzothiadiazone or a triazine.
25. (Original) A synergistic herbicidal mixture as claimed in claim 12 comprising, as component A) 4-[2-methyl-3-(4,5-dihydroisoxa-zol-3-yl)-4-methylsulfonyl-benzoyl]-1-methyl-5-hydroxy-1H-pyrazole, as component B) imazapic and imazapyr, and as component C) bentazone.
26. (Original) A synergistic herbicidal mixture as claimed in claim 12 comprising, as component A) 4-[2-methyl-3-(4,5-dihydroisoxa-zol-3-yl)-4-methylsulfonyl-

benzoyl]-1-methyl-5-hydroxy-1H-pyrazole, as component B) imazapic and imazapyr as component C) atrazine.

27. (Currently Amended) Synergistic herbicidal mixture as claimed in ~~any of claims 1 to 26~~ claim 1, wherein component A) and B) are present in a weight ratio of 1:0.001 to 1:500.

28. (Currently Amended) Synergistic herbicidal mixture as claimed in ~~any of claims 12 to 26~~ claim 12, wherein component A) and component C) are present in a weight ratio of 1:0.002 to 1:800.

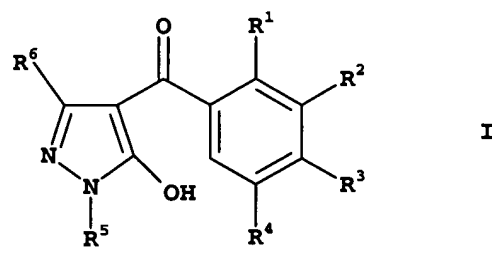
29. (Currently Amended) A herbicidal composition comprising a herbicidally active amount of a synergistic herbicidal mixture as claimed in ~~any of claims 1 to 28~~ claim 1, at least one inert liquid and/or solid carrier and, if desired, at least one surfactant.

30. (Currently Amended) A process for the preparation of herbicidal compositions as claimed in claim 29, ~~wherein~~ comprising mixing component A), component B), if desired, component C), at least one inert liquid and/or solid carrier and, if appropriate, a surfactant ~~are mixed~~.

31. (Currently Amended) A method of controlling undesired vegetation, ~~which comprises~~ comprising applying simultaneously or separately to said

vegetation, the environment of said vegetation and/or seeds of said vegetation  
~~a synergistic herbicidal mixture as claimed in any of claims 1 to 28 before,~~  
~~during and/or after the emergence of undesired plants, it being possible for the~~  
~~herbicidally active compounds of components A), B) and, if desired, C) to be~~  
~~applied simultaneously or in succession.~~

A) at least one 3-heterocyclyl-substituted benzoyl derivative of the formula I



in which the variables have the following meanings:

R¹, R³ are halogen, C₁-C₆-alkyl, C₁-C₆-haloalkyl, C₁-C₆-alkoxy, C₁-C₆-  
haloalkoxy, C₁-C₆-alkylthio, C₁-C₆-alkylsulfinyl or C₁-C₆-  
alkylsulfonyl;

R² is a heterocyclic radical selected from the group: isoxazol-3-yl,  
isoxazol-4-yl, isoxazol-5-yl, 4,5-dihydroisoxazol-3-yl, 4,5-  
dihydroisoxazol-4-yl and 4,5-dihydroisoxazol-5-yl, it being possible  
for the six radicals mentioned to be unsubstituted or mono- or  
polysubstituted by halogen, C₁-C₄-alkyl, C₁-C₄-alkoxy, C₁-C₄-  
haloalkyl, C₁-C₄-haloalkoxy or C₁-C₄-alkylthio;

R⁴ is hydrogen, halogen or C₁-C₆-alkyl;

R5 is C<sub>1</sub>-C<sub>6</sub>-alkyl;

R6 is hydrogen or C<sub>1</sub>-C<sub>6</sub>-alkyl;

or one of its environmentally compatible salts;

and

B) two herbicides selected from the group including imazapyr, imazaquin,

imazamethabenz-methyl, imazamox, imazapic and imazethapyr;

or one of its environmentally compatible salts;

and, if desired,

C) at least one herbicidal compound from the group of the acetyl-CoA

carboxylase inhibitors (ACC), acetolactate synthase inhibitors (ALS),

amides, auxin herbicides, auxin transport inhibitors, carotenoid

biosynthesis inhibitors, enolpyruvylshikimate 3-phosphate synthase

inhibitors (EPSPS), glutamine synthetase inhibitors, lipid biosynthesis

inhibitors, mitosis inhibitors, protoporphyrinogen IX oxidase inhibitors,

photosynthesis inhibitors, synergists, growth substances, cell wall

biosynthesis inhibitors and a variety of other herbicides;

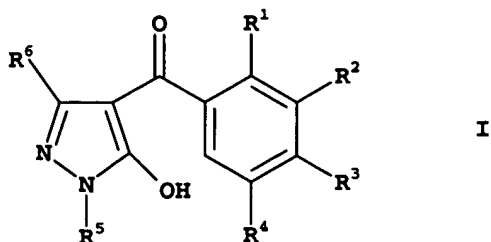
in a synergistically effective amount.

32. (Currently Amended) A The method of controlling undesired vegetation as  
claimed in claim 31, wherein the leaves of the crop plants and of the undesired  
plants are treated vegetation is proximate crop plants, and the application is to  
the leaves of the crop plant and of the undesired vegetation.

**Abstract**

A synergistic herbicidal mixture comprising

A) at least one 3-heterocyclyl-substituted benzoyl derivative of the formula I



in which the variables have the following meanings:

$R^1$ ,  $R^3$  are halogen, alkyl, haloalkyl, alkoxy, haloalkoxy, alkylthio, alkylsulfinyl or alkylsulfonyl;

$R^2$  is a optionally substituted heterocyclic radical selected from the group: isoxazol-3-yl, isoxazol-4-yl, isoxazol-5-yl, 4,5-dihydroisoxazol-3-yl, 4,5-dihydroisoxazol-4-yl and 4,5-dihydroisoxazol-5-yl;

$R^4$  is hydrogen, halogen or alkyl;

$R^5$  is alkyl;

$R^6$  is hydrogen or alkyl;

or one of its environmentally compatible salts;

and

B) two herbicides selected from the group including imazapyr, imazaquin, imazamethabenz-methyl, imazamox, imazapic and imazethapyr;

or one of its environmentally compatible salts;

~~in a synergistically effective amount;~~

and, if desired,

C) at least one further herbicidal compound;-

in a synergistically effective amount.

Compositions comprising these mixtures, processes for the preparation of these compositions, and their use for controlling undesired plants.